



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.4710003/RWE/FRCAPPLICATION NO.  
10/761,278APPLICANT  
Donahue et al.FILING DATE  
January 22, 2004GROUP  
1652

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NN	AA1	3,843,453	10/22/1974	Freake, et al.			03/02/1973
NN	AB1	4,038,143	07/26/1977	Juni			08/15/1975
NN	AC1	4,446,230	05/01/1984	Zubrzycki			10/30/1981
NN	AD1	4,520,019	05/28/1985	Ribi, et al.			03/19/1984
NN	AE1	4,681,852	07/21/1987	Tribe			01/18/1983
NN	AF1	4,808,404	02/28/1989	Bhogal			01/11/1988
NN	AG1	4,824,938	04/25/1989	Koyama, et al.			08/31/1987
NN	AH1	4,851,348	07/25/1989	Hanahan			07/16/1986
NN	AI1	4,891,319	01/02/1990	Roser			05/07/1987
NN	AJ1	4,950,609	08/21/1990	Tischer, et al.			03/27/1986
NN	AK1	4,981,797	01/01/1991	Jessee, et al.			11/14/1988

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
NN	AL1	AU-A-27434/88	06/29/1989	Australia			Yes No
NN	AM1	EP 0 383 569 A2	08/22/1990	Europe			Yes No
NN	AN1	EP 0 508 496 A1	10/14/1992	Europe			Yes No
NN	AO	WO 98/49266	11/05/1998	WIPO			Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	1	Anderson, D.M.W. and I.C.M. Dea, "Recent advances in the chemistry of Acacia gums," J. Soc. Cosmet. Chem. 22:61-76, Society of Cosmetic Chemists of Great Britain (1971).
NN	AS	1	Alexander, D.C. et al., "A simplified and efficient vector-primer cDNA cloning system," Gene 31:79-89, Elsevier Science (1984).
NN	AT	1	Chung, C.T. et al., "One-step preparation of competent Escherichia coli: Transformation and storage of bacterial cells in the same solution," Proc. Natl. Acad. Sci. USA 86:2172-2175, The National Academy of Sciences (1989).

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NN	AA2	5,045,446	09/03/1991	Goodrich, Jr., et al.			07/11/1989
NN	AB2	5,059,518	10/22/1991	Kortright, et al.			10/20/1988
NN	AC2	5,098,893	03/24/1992	Franks, et al.			02/12/1990
NN	AD2	5,292,507	03/08/1994	Charley			09/14/1992
NN	AE2	5,425,951	06/20/1995	Goodrich, Jr., et al.			05/31/1991
NN	AF2	5,512,468	04/30/1996	Greener			11/22/1993
NN	AG2	5,891,692	04/06/1999	Bloom, et al.			03/27/1997
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	AL						Yes: No:
	AM						Yes: No:
	AN						Yes: No:
	AO						Yes: No:
	AP						Yes: No:

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	2	Cosloy, S.D. and M. Oishi, "Genetic Transformation in <i>Escherichia coli</i> K12," <i>Proc. Natl. Acad. Sci. USA</i> 70:84-87, The National Academy of Sciences (1973).
NN	AS	2	Cronan, Jr., J.E., "Thermal Regulation of the Membrane Lipid Composition of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 250:7074-7077, American Society for Biochemistry and Molecular Biology (1975).
NN	AT	2	Crowe, J.H. et al., "Stabilization of dry phospholipid bilayers and proteins by sugars," <i>Biochem. J.</i> 242:1-10, American Chemical Society (1987).

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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	<u>3</u>	Danilevskaya, O.N. and A.I. Gragerov, "Curing of <i>Escherichia coli</i> K12 Plasmids by Coumermycin," <i>Molec. Gen. Genet.</i> 178:233-235, Springer Verlag (1980).
NN	AS	<u>3</u>	de Mendoza, D. et al., "Overproduction of <i>cis</i> -Vaccenic Acid and Altered Temperature Control of Fatty Acid Synthesis in a Mutant of <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 151:1608-1611, American Society for Microbiology (1982).
NN	AT	<u>3</u>	de Mendoza, D. et al., "Thermal Regulation of Membrane Fluidity in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 258:2098-2101, American Society for Biochemistry and Molecular Biology (1983).

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NN	AR	<u>4</u>	de Mendoza, D. and J.E. Cronan, Jr., "Thermal regulation of membrane lipid fluidity in bacteria," <i>TIBS</i> 8:49-52, Elsevier Science (1983).
NN	AS	<u>4</u>	Dityatkin, S. Ya. and B.N. Il'yashenko, "Acceptor properties of freeze-thawed bacteria in relation to isolated plasmid DNA," <i>Chem. Abs.</i> 89:295, Abstract No. 176192r, The American Chemical Society (1978).
NN	AT	<u>4</u>	Dityatkin, S.Ya. and B.N. Ilyashenko, "Frozen and thawed bacteria as recipients of isolated phage and plasmid DNA," <i>Chem. Abs.</i> 90:322, Abstract No. 183010d, The American Chemical Society (1979).

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	5	Dutyatkin, S. Ya. and B.N. Il'yashenko, "Chromosomal transformation of frozen-thawed bacteria," <i>Chem. Abs.</i> 90:286-287, Abstract No. 148301c, The American Chemical Society (1979).
NN	AS	5	Gombos, Z. et al., "Unsaturation of fatty acids in membrane lipids enhances tolerance of the cyanobacterium <i>Synechocystis</i> PCC6803 to low-temperature photoinhibition," <i>Proc. Natl. Acad. Sci. USA</i> 89:9959-9963, The National Academy of Sciences (1992).
NN	AT	5	Green, J.L. and C.A. Angell, "Phase Relations and Vitrification in Saccharide-Water Solutions and the Trehalose Anomaly," <i>J. Phys. Chem.</i> 93:2880-2882, American Chemical Society (1989).

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	AM						Yes Nc
	AN						Yes Nc
	AO						Yes Nc
	AP						Yes Nc

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	<u>6</u>	Hanahan, D., "Techniques for Transformation of <i>E. coli</i> ," in <i>DNA cloning. Volume I. a practical approach</i> , Glover, D.M., ed., IRL Press Limited, Oxford, England, pp. 109-135 (1985).
NN	AS	<u>6</u>	Hanahan, D. et al., "Plasmid Transformation of <i>Escherichia coli</i> and Other Bacteria," <i>Meth. Enzym.</i> 204:63-113, Academic Press, Inc. (1991).
NN	AT	<u>6</u>	Hatley, R.H.M. et al., "The Stabilization Of Labile Biochemicals By Undercooling," <i>Process Biochem.</i> 22:169-172, Elsevier Science Ltd. (1987).

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	AM						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	2	Hatley, R.H.M. and F. Franks, "Variation in Apparent Enzyme Activity in Two-Enzyme Assay Systems: Phosphoenolpyruvate Carboxylase and Malate Dehydrogenase," <i>Biotechnol. &amp; Appl. Biochem.</i> 11:367-370, Portland Press Ltd. (1989).
NN	AS	2	Heckly, R.J. and J. Quay, "A Brief Review of Lyophilization Damage and Repair in Bacterial Preparations," <i>Cryobiology</i> 18:592-597, Academic Press Inc. (1981).
NN	AT	2	Konev, S.V. et al., "Membrane-structural mechanism of the development of competence in <i>Escherichia coli</i> cells to calcium-dependent transfection by bacteriophage $\lambda$ DNA," <i>Chem. Abs.</i> 89:295, Abstract No. 176191q, The American Chemical Society (1978).

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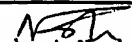
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	8	Lin, J.-J. and J. Kuo, "AFLP™: A Novel PCR-Based Assay for Plant and Bacterial DNA Fingerprinting," <i>Focus</i> 17:66-70, Invitrogen Corporation (1995).
NN	AS	8	<i>Merck Index: An Encyclopedia of Chemicals, Drugs, and Biologicals</i> , 11th edition, Budavari, S. et al., eds., Merck & Co., Inc., Rahway, NJ, p. 3 (1989).
NN	AT	8	Morrison, D.A., "Transformation and Preservation of Competent Bacterial Cells by Freezing," <i>Meth. Enzym.</i> 68:326-331, Academic Press, Ltd. (1979).

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	AN						Yes No
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NN	AR	2	Polisky, B. et al., "Specificity of substrate recognition by the EcoRI restriction endonuclease," <i>Proc. Natl. Acad. Sci. USA</i> 72:3310-3314, The National Academy of Sciences (1975).
NN	AS	2	Pope, B. and H.M. Kent, "High efficiency 5 min transformation of <i>Escherichia coli</i> ," <i>Nucleic Acids Res.</i> 24:536-537, Oxford University Press (1996).
NN	AT	2	Reusch, R.N. et al., "Poly- $\beta$ -Hydroxybutyrate Membrane Structure and Its Relationship to Genetic Transformability in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 168:553-562, American Society for Microbiology (1986).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	10	Simione, Jr., F.P., "Key Issues Relating to the Genetic Stability and Preservation of Cells and Cell Banks," <i>J. Parenteral Sci. &amp; Technol.</i> 46:226-232, Parental Drug Association, Inc. (1992).
NN	AS	10	Suzuki, M. and A.A. Szalay, "Bacterial Transformation Using Temperature-Sensitive Mutants Deficient in Peptidoglycan Synthesis," <i>Meth. Enzym.</i> 68:331-342, Academic Press (1979).
NN	AT	10	Tang, X. et al., "The optimization of preparations of competent cells for transformation of <i>E. coli</i> ," <i>Nucleic Acids Res.</i> 22:2857-2858, Oxford University Press (1994).

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	AP						Yes No

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NN	AR	<u>11</u>	Trinh, T. et al., "STBL2™: An <i>Escherichia coli</i> Strain for the Stable Propagation of Retroviral Clones and Direct Repeat Sequences," <i>FOCUS</i> 16:78-80, Invitrogen Corporation (1994).
NN	AS	<u>11</u>	Ulrich, A.K. et al., "Genetic and Biochemical Analyses of <i>Escherichia coli</i> Mutants Altered in the Temperature-Dependent Regulation of Membrane Lipid Composition," <i>J. Bacteriol.</i> 154:221-230, American Society for Microbiology (1983).
NN	AT	<u>11</u>	van Die, I.M. et al., "Transformation in <i>Escherichia coli</i> : Studies on the Role of the Heat Shock in Induction of Competence," <i>J. Gen. Microbio.</i> 129:663-670, Society for General Microbiology (1983).

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NN	AR	<u>12</u>	Wada, H. et al., "Contribution of membrane lipids to the ability of the photosynthetic machinery to tolerate temperature stress," <i>Proc. Natl. Acad. Sci. USA</i> 91:4273-4277, The National Academy of Sciences (1994).
NN	AS	<u>12</u>	Weisburd, S., "Death-Defying Dehydration. Sugars sweeten survival for dried-out animals, membranes and cells," <i>Science News</i> 133:107-110, Science Services (1988).
NN	AT	<u>12</u>	Life Technologies, Inc. 1993-94 Catalogue and Reference Guide, GIBCO BRL, Gaithersburg, MD, pub., pp. 6-10 and 9-4 (1993).

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NN	AR	<u>13</u>	Bullock, W.O. et al., "XL1-Blue: A High Efficiency Plasmid Transforming <i>recA</i> <i>Escherichia coli</i> Strain With Beta-Galactosidase Selection," <i>BioTechniques</i> 5:376-378, Eaton Publishing Co. (1987).
NN	AS	<u>13</u>	Cohen, S.N. et al., "Nonchromosomal Antibiotic Resistance in Bacteria: Genetic Transformation of <i>Escherichia coli</i> by R-Factor DNA," <i>Proc. Natl. Acad. Sci. USA</i> 69:2110-2114, National Academy of Sciences (1972).
NN	AT	<u>13</u>	Dagert, M. and Ehrlich, S.D., "Prolonged Incubation In Calcium Chloride Improves The Competence Of <i>Escherichia coli</i> Cells," <i>Gene</i> 6:23-28, Elsevier/North-Holland Biomedical Press (1979).

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.4710003/RWE/FRC	APPLICATION NO. 10/761,278
	APPLICANT Donahue et al.	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	14	Dente, L. et al., "pEMBL: a new family of single stranded plasmids," <i>Nucleic Acids Res.</i> 11:1645-1655, IRL Press Limited (1983).
NN	AS	14	Dower, W.J. et al., "High efficiency transformation of <i>E.coli</i> by high voltage electroporation," <i>Nucleic Acids Res.</i> 16:6127-6145, IRL Press Limited (1988).
NN	AT	14	GIBCO-BRL Catalog, Life Technologies, 1993-1994, pages 9-6 abd 9-10 (1993).

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	AN						Yes. No.
	AO						Yes. No.
	AP						Yes. No.

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	<u>15</u>	Hamrick, J.L. and R.W. Allard., "Microgeographical Variation in Allozyme Frequencies in <i>Avena barbata</i> ," <i>Proc. Natl. Acad. Sci USA</i> 69:2100-2104, The National Academy of Sciences (1972).
NN	AS	<u>15</u>	Hanahan, D., "Studies on Transformation of <i>Escherichia coli</i> with Plasmids," <i>J. Mol. Biol.</i> 166:557-580, Academic Press Inc. (1983).
NN	AT	<u>15</u>	Hanahan, D. and F.R. Bloom, "Mechanisms of DNA Transformation," in <i>Escherichia coli and Salmonella</i> , Neidhardt, F.C. et al., eds., Cellular and Molecular Biology, ASM Press, Washington, DC., pp. 2448-2459, (1996).

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NN	AR	<u>16</u>	Inoune, H. et al., "High efficiency transformation of <i>Escherichia coli</i> with plasmids," <i>Gene</i> 96:23-28, Elsevier (1990).
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NN	AT	<u>16</u>	Levinson, A. et al., "Minimal Size Plasmids Containing an M13 Origin for Production of Single-Strand Transducing Particles," <i>J. Mol. Applied Genet.</i> 2:507-517, Raven Press (1984).

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NN	AS	17	Liu, H. and Rashidbaigi, A., "Comparison of Various Competent Cell Preparation Methods for High Efficiency DNA Transformation," BioTechniques 8:21-25, Eaton Publishing Co. (1990).
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NN	AR	18	Meselson, M. and R. Yuan, "DNA Restriction Enzyme from <i>E. coli</i> ," <i>Nature</i> 217:1110-1114, Nature Publishing Group (1968).
NN	AS	18	Messing, J., "M13mp2 And Derivatives: A Molecular Cloning System For DNA Sequencing, Strand-Specific Hybridization, And <i>In Vitro</i> Mutagenesis," in <i>Recombinant DNA. Proceedings of the Third Cleveland Symposium on Macromolecules</i> , Cleveland, Ohio, 22-26 June 1981, Walton, A.G., ed., Elsevier Scientific Publishing Co., Amsterdam, The Netherlands, pp. 143-153 (1981).
NN	AT	18	Neumann, E. et al., "Gene transfer into mouse lyoma cells by electroporation in high electric fields," <i>EMBO J.</i> 7:841-845, Oxford University Press (1982).

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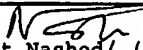
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	<u>19</u>	Newman, T. et al., "Cloning and Expression of the <i>ilvB</i> Gene of <i>Escherichia coli</i> K-12," <i>Mol. Gen. Genet.</i> 186:378-384, Springer-Verlag (1982).
NN	AS	<u>19</u>	Norgard, M.V. et al., "Factors Affecting The Transformation Of <i>Escherichia coli</i> Strain $\chi$ 1776 By pBR322 Plasmid DNA," <i>Gene</i> 3:279-292, Elsevier/North-Holland Biomedical Press (1978).
NN	AT	<u>19</u>	Old, R.W. and Primrose, S.B., "Cloning strategies, gene libraries and cDNA cloning; Recombinant Selection; Expression of cloned DNA molecules," in <i>Principles of Gene Manipulation</i> , Carr N.G., ed., Blackwell Scientific Publications, Osney Mead, Oxford, pp. 100-166 (1994).

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NN	AR	20	Old, R.W. and Primrose, S.B., "An Introduction to Genetic Engineering," in <i>Principles of Gene Manipulation. An Introduction To Genetic Engineering</i> , Carr, N.G., ed., Blackwell Science, Osney Mead, Oxford, pp. 6-21 (1995).
NN	AS	20	Potter, H., "Electroporation in Biology: Methods, Applications, and Instrumentation," <i>Analyt. Biochem.</i> 174:361-373, Academic Press, Inc. (1988).
NN	AT	20	Sambrook, J. et al., "Preparation and Transformation of Competent E. Coli," in <i>Molecular Cloning</i> , Sambrook, J., Fritsch, E.F., and Maniatis, T., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, pp. 1.74-1.84 (1989).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
NN	AR	<u>21</u>	Sambrook, J. et al., "Plasmid Vectors," in <i>Molecular Cloning</i> , Sambrook, J., Fritsch, E.F., and Maniatis, T., eds. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, p. 1.14 (1989).
NN	AS	<u>21</u>	Taketo, A., "Sensitivity of <i>Escherichia coli</i> to Viral Nucleic Acid, VIII. Idiosyncrasy of Ca <sup>2+</sup> -dependent Competence for DNA," <i>J. Biochem.</i> 75:895-904, The Japanese Biochemical Society (1974).
NN	AT	<u>21</u>	Taketo, A., "Sensitivity of <i>Escherichia coli</i> to Viral Nucleic Acid, X, Ba <sup>2+</sup> - Induced Competence for Transfecting DNA," <i>Z. Naturforsch. Sect. C</i> 30:520-522, Springer-Verlag (1975).

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NN	AR	<u>22</u>	Taketo, A., "Sensitivity of <i>Escherichia coli</i> to Viral Nucleic Acid, XII. $\text{Ca}^{2+}$ - or $\text{Ba}^{2+}$ -Facilitated Transfection of Cell Envelope Mutants," <i>Z. Naturforsch. Sect. C</i> 32:429-433, Springer-Verlag (1977).
NN	AS	<u>22</u>	Tucker, W.T., et al., "Structural and Functional Analysis of the <i>par</i> Region of the pSC101 Plasmid," <i>Cell</i> 38:191-201, MIT (1984).
NN	AT	<u>22</u>	Vieira, J. and Messing, J., "Production of Single-Stranded Plasmid DNA," <i>Methods Enzymol.</i> 153:3-11, Academic Press, Inc. (1987).

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NN	AS	<u>23</u>	Zagursky, R.J. and Berman, M.L., "Cloning vectors that yield high levels of single-stranded DNA for rapid DNA sequencing," <i>Gene</i> 27:183-191, Elsevier (1984).
NN	AT	<u>23</u>	Zimmermann, U. and Vienken, J., "Electric Field-Induced Cell-to-Cell Fusion," <i>J. Membrane Biol.</i> 67:165-182, Springer-Verlag (1982).

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